

1. A printing apparatus, comprising:
 - an imaging surface;
 - a charging device for placing a charge on the imaging surface, the charging device including a corona member extending in an extension direction;
 - a shuttle movable along the extension direction, the shuttle including a cleaning member useful for cleaning the corona member;
 - a motor for moving the shuttle along the extension direction; and
 - control means for changing a direction of the motor in response to detecting a power consumption of the motor within a predetermined range.
2. The apparatus of claim 1, further comprising
 - a converter for converting a rotational motion of the motor to linear motion.
3. The apparatus of claim 2, the converter including a lead screw.
4. The apparatus of claim 1, the corona member including at least one wire.
5. The apparatus of claim 1, the corona member including a screen.
6. The apparatus of claim 1, wherein the corona member is biased.

7. The apparatus of claim 1, the control means detecting an increase in power consumption of the motor.

8. The apparatus of claim 7, the control means detecting a increase in current consumption of the motor.

9. The apparatus of claim 1, the motor including a DC brush motor.

10. The apparatus of claim 1, the control means measuring a time between an initiation of the motor and a condition of power consumption of the motor relative to a predetermined range.

11. The apparatus of claim 10, the control means reacting to a fault condition if the measured time between the initiation of the motor and the condition of power consumption of the motor within a predetermined range is below a predetermined threshold.

12. The apparatus of claim 1, the control means stopping the motor in response to detecting a second increase in power consumption of the motor.

13. The apparatus of claim 1, the charging device being one of a charge corotron, transfer corotron, and detack corotron.